

**LASKARIS et al**  
Serial No. **09/855,026**

Electromagnetic Shield And Method For Assembly", filed May 15, 2001 (atty. dkt. 839-1016);

[0011] U.S. Patent Application Serial No. 09/854,944 entitled "A High Power Density Super-Conducting Electric Machine" filed May 15, 2001 (atty. dkt. 839-1019);

C'  
Cond.

[0012] U.S. Patent Application Serial No. 09/854,943 entitled "Cryogenic Cooling System For Rotor Having A High Temperature Super-Conducting Field Winding", filed May 15, 2001 (atty. dkt. 839-1062);

[0013] U.S. Patent Application Serial No. 09/854,464 entitled "High Temperature Super-Conducting Racetrack Coil", filed May 15, 2001 (atty. dkt. 839-1063); and

[0014] U.S. Patent Application Serial No. 09/855,034 entitled "High Temperature Super Conducting Rotor Power Leads", filed May 15, 2001 (atty. dkt. 839-1064).

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### **IN THE CLAIMS**

Please substitute the following amended claims for corresponding claims previously presented. A copy of the amended claims showing current revisions is attached.

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1. (Amended) In a synchronous machine, a rotor comprising:

a rotor core;

C2

a super-conducting coil winding extending around at least a portion of the rotor core, said coil winding having a pair of side sections on opposite sides of said rotor core;

C<sup>2</sup>  
mid. at least one tension rod extending between the pair of side sections of the  
coil winding and through said rotor, wherein each end of the tension rod is  
adjacent one of the side sections;

a coil housing at each of opposite ends of said tension rod, wherein said  
housing wraps around said coil winding and is attached to said tension rod.

C<sup>3</sup>  
16. (Amended) A method for supporting a super-conducting coil  
winding on a rotor core of a synchronous machine comprising the steps of:

- a. extending a tension bar through a conduit in said rotor core, such  
that the ends of the tension bar are each adjacent the coil winding;
- b. inserting a housing over a portion of the coil;
- c. attaching an end of the tension bar to the housing.

C<sup>4</sup>  
21. (Amended) A rotor for a synchronous machine comprising:  
a rotor core having a conduit orthogonal to a longitudinal axis of the rotor;  
a racetrack super-conducting (SC) coil winding in a planar racetrack shape  
parallel to the longitudinal axis of the rotor;

a tension rod inside the conduit of the core, said tension having ends  
adjacent to the coil winding; and

a housing coupling the coil winding to the tension rod.

#### REMARKS

Reconsideration of this application is respectfully requested. A new  
Abstract has been substituted for the original Abstract, as suggested in the Action.